

19971129.qrp v00_n924.qrs.971129

Date: Sat, 29 Nov 1997 19:03:22 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 924

QRP-L Digest 924

Topics covered in this issue include:

- 1) [31499] Re: B&W BWDS 1.8-30 Folded Dipole
by kt3a@juno.com
- 2) [31500] Re: Solar Flare - The novel / emp
by "Tim Ahrens" <tahrens@inetport.com>
- 3) [31501] Expanded SST Freq Coverage
by Steve Galchutt <n0tu@webaccess.net>
- 4) [31502] RE: Solar Flare - The novel
by Larry Cruise <larry.cruise@mci.com>
- 5) [31503] Cheap antenna Tuner SWR Bridge
by Tom Morgan <liveoak@sccoast.net>
- 6) [31504] Re: Vertical vs. Dipole (& SLR's)
by Peter Demmer <ampruss@hits.net>
- 7) [31505] Re: HB: Marlin P Jones?
by "George T. Baker" <w5yr@swbell.net>
- 8) [31506] re: Predicted signal strengths
by "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
- 9) [31507] QRP-L ssb SCORES (2)
by "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
- 10) [31508] Re:Diodes in Concrete
by Randy Hargenrader <randyh@harksystems.com>
- 11) [31509] notes on wide-banding feed for lower HF dipoles
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 12) [31510] Re: HB: Marlin P Jones?
by "Ron Smith" <resmith@primenet.com>
- 13) [31511] Re: Verticals w/o radials work!
by K5BDZ@aol.com
- 14) [31512] Re: Prop. program wanted that gives uV, power, etc.
by NilsBull@aol.com
- 15) [31513] Re: Verticals w/o radials work!
by "Daniel L. Evans" <dlevans@hsonline.net>
- 16) [31514] RS Headphones
by kb0rol@juno.com (Bradley L Mugleston)
- 17) [31515] Re: Mystery Explained
by kb0rol@juno.com (Bradley L Mugleston)
- 18) [31516] Kenwood TS-50s and QRP
by "Marty Watt" <mdwatt@usit.net>
- 19) [31517] Re: NorCal / K8FF Paddles

by "Ronny G. Merkel" <rgmerkel@deltanet.com>
20) [31518] RE: Vertical vs. Dipole
by Kevin Muenzler <wb5rue@stic.net>
21) [31519] Been there--done that
by Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
22) [31520] Re: V vs H ants (Long!)
by Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
23) [31521] Re: HB: Marlin P Jones?
by "Harvey D. D. Hetland" <n6mm@earthlink.net>
24) [31522] FS: Macintosh Modems
by Bill Todd <bill@techline.com>
25) [31523] Coax data for RG-6?
by "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
26) [31524] LA4AHA en 18 MHz
by "Juan Antonio Lopez, EA8QJ, EA-QRP # 196" <jalopezd@arrakis.es>
27) [31525] Verticals & Earth Mats
by David Ackrill <g0dja@zetnet.co.uk>
28) [31526] Re: Verticals w/o radials work!
by k5zty@juno.com
29) [31527] Gophers and antennas
by Michael <MichaelN@cycat.com>
30) [31528] Tks for INFO on RS Headphones
by Steve Galchutt <n0tu@webaccess.net>
31) [31529] CQ WW - CW, 15 meters
by Joel Malman <malman@BBN.COM>
32) [31530] Re: (Fwd) [CW] Is it possible to be left or right "eared" for
CW?
by ki7mn@dancris.com
33) [31531] Re: Verticals w/o radials work!
by bruce muscolino <w6toy@pop.erols.com>
34) [31532] Re: R5 Vertical at my location
by "Mike Pender" <steam@megsinet.net>
35) [31533] Re: Solar Flare - The novel / emp
by Leon Heller <leon@lfheller.demon.co.uk>
36) [31534] Re: HB: Marlin P Jones?
by "Ron Smith" <resmith@primenet.com>
37) [31535] Re: Verticals w/o radials work!
by "Marshall Emm" <mgemm@technologies.com>
38) [31536] Ham lessons on tape?
by n5inz@juno.com (John M Andrews)
39) [31537] Novel stuff, ne?
by nilsbull@juno.com (Nils R Young)
40) [31538] Vertical & radials--- ha
by jdenison@morelr.com (JOEL DENISON)
41) [31539] Re: HB: Another well-worn topic
by w4bws@juno.com (Donald E Sanders)
42) [31540] Re: High Gain Drifter? (FS/T)
by w4bws@juno.com (Donald E Sanders)

- 43) [31541] Re: Paddle wiring
by w4bws@juno.com (Donald E Sanders)
- 44) [31542] Re: Vertical & radials--- ha
by w4bws@juno.com (Donald E Sanders)
- 45) [31543] Hammers, ON4UN, and radials
by W5HNS@aol.com
- 46) [31544] Re: Ham lessons on tape?
by Erv <kb8tnq@voyager.net>
- 47) [31545] Re: Hammers, ON4UN, and radials
by "(Parker) j@parker.reno.nv.us" <Pparker@greatbasin.net>
- 48) [31546] Re: Verticals w/o radials work!
by nilsbull@juno.com (Nils R Young)
- 49) [31547] KA80KH Fox Log
by "Rich Dailey, KA80KH" <ka8okh@som-uky.campus.mci.net>

Date: Fri, 28 Nov 1997 19:25:08 EST
From: kt3a@juno.com
To: n4xy@bellsouth.net
Cc: qrp-l@Lehigh.EDU
Subject: [31499] Re: B&W BWDS 1.8-30 Folded Dipole
Message-ID: <19971128.192153.5415.6.kt3a@juno.com>

Thanks for the info on the new stainless antenna.
I did not know about the new model. They were made in Bristol, PA.

We just installed one at my work (Ft Indiantown Gap)
and it works like a champ. The element at the bottom
is a balun (? :1 I don't recall the ratio). The top piece
is a resistor which you guessed correctly. There was a
reference made on QRP-L about an antenna bought by the US Gov't
which was basically a resistor. The on air tests were
good at 7 Mhz. The antenna performed as well as our
tuned inverted vee. The SWR is below 2:1 from 3.5 to 30 Mhz.
That is why the antenna was selected. It will work any frequency
without the need for antenna tuners. It is not a highly efficient
antenna.
But, it will work. 72, and GL

Cameron C.R. Bailey <><
Amateur Radio, KT3A
kt3a@juno.com
Mount Wolf, Pennsylvania

Date: Fri, 28 Nov 1997 19:02:42 -0600
From: "Tim Ahrens" <tahrens@inetport.com>
To: <kt3a@juno.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [31500] Re: Solar Flare - The novel / emp
Message-ID: <199711290106.TAA09464@admin.inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi Cam - from my ex mil days, I think that your rigs
will only survive an EMP if the antenna is shorted directly
to ground. Bye-bye ALL cell phones, two way services,
etc, etc. Not a pretty sight/thought.

cu

Tim W5FN

OBQRP (an EMP is not)! :-)

I have read about the effects of EMP
> (Electromagnetic Pulse) explosions which could zap solid state devices.
> I would think that HF would be wiped out even if we
> had battery backup. What about close in ground wave?
> I guess I have to dig out the old FEMA courses again.
>
> Cameron C.R. Bailey <><
> Amateur Radio, KT3A
> kt3a@juno.com
> Mount Wolf, Pennsylvania
>

Date: Fri, 28 Nov 1997 18:14:05 -0700
From: Steve Galchutt <n0tu@webaccess.net>
To: "\"Low Power Amateur Radio Discussion\"" <qrp-1@Lehigh.EDU>
Subject: [31501] Expanded SST Freq Coverage
Message-ID: <347F6C5D.20F5@webaccess.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I just tried strapping another 18 MHz rock accross the other one in my
20m SST and I couldn't believe my eyes the the counter said 14,004 to
14,057! WOW...that almost 50KHz hmmm... now if I can just move it up to

above 14,060! Tuning is a little rapid. Maybe a 10 turn pot would solve this? But my counter just died @#*\$&!well time for something else...like XC skiing. We just got about 15" of new white stuff last night here in Colorado. sush....sush....sush

--

CUL Steve/n0tu . .
Solar powered QRP/CW
Monument, CO.....email:N0TU@webaccess.net

Date: Fri, 28 Nov 1997 19:22:44 -0600
From: Larry Cruise <larry.cruise@mci.com>
To: "'QRP-L'" <qrp-l@Lehigh.EDU>
Subject: [31502] RE: Solar Flare - The novel
Message-ID: <01BCFC33.0C867000@dpenrose.mci.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

>From: kt3a@juno.com[SMTP:kt3a@juno.com]
>Sent: Friday, November 28, 1997 4:42 PM
>To: Low Power Amateur Radio Discussion
>Subject: Solar Flare - The novel

>I just saw an ad for a novel by Larry Burkett, who
>used to work for NASA. The ad gives the indication
>that electricity is lost due to a huge solar flare.
>The book is titled, "Solar Flare".
>Has anyone read this book,

This is what one reader had to say. By the way the book is 450 pages!

A Reader from Pittsburgh , 10/15/97, rating=3D5:

Solar fizzle=20

Each of Larry Burkett's books seems to be a little less enjoyable and a bit more predictable than the last. I loved The Illuminati and I liked The Thor Conspiracy, but I could take or leave Solar Flare. The writing is a bit too simplistic, melodramatic, and repetitive for me. But if you enjoy Christian fiction, it's still a decent read.=20

-72 Larry (AA5TA)

Date: Fri, 21 Nov 1997 15:55:34 -0500
From: Tom Morgan <liveoak@sccoast.net>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>
Subject: [31503] Cheap antenna Tuner SWR Bridge
Message-ID: <01BCF6C4.B522A220.liveoak@sccoast.net>

QRPers;

Tnx for all the replies I got on my antenna problem. I found out we had some pipe, so it's gonna be a vert. Dipole. I have a schematic for a great Antenna tuner-SWR bridge to go with it. It's basically a tapped coil, an air cap (well, so much for >\$10!!!) and a led for the SWR bridge circuit (a toroid and four resistors!) anybody want the schematic, let me know.

72 de KU4LC ?Tommy Morgan

Date: Fri, 28 Nov 1997 15:03:41 -1000
From: Peter Demmer <ampruss@hits.net>
To: david.gauding@bbs.galilei.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [31504] Re: Vertical vs. Dipole (& SLR's)
Message-ID: <347F69ED.3A9A@hits.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

David Gauding wrote:

>
> Adrian (W0RSP) and Bill (K5ZTY),
>
> How about reading the "St. Louis Radials" article in QRPP over carefully one
> time?
>
> For others, both of you have dismissed a useful little portable antenna

> project out-of-hand by fixating on the question of resonant vs. non-resonant
> radials. Quality stuff guys! Definitely worth about .02!

>

> The SLR's and numerous variations were tested in-the-field (a.k.a. portable)
> Sorta long;

Snip; Right on Dave, I assembled and tested, (just for the fun of it) 3
of the W6MMA style SLV antennas of the Vern Wright design. I

Retro-fitted the coil turns contactor and had a great simple portable
antenna. I used the RF-1 antenna analyzer and made some note pad
graphs. My radials were of the RS Tv ant., five conductor flat rotator
cable design. First, I simply divided up the 100 ft into 6 equal
pieces. That comes out to 16.76 ft each. I added 1 ft of No.12 AWG
stranded insulated wire to each of the six 5 conductor 16.67' lengths.
This is how I maximized the cost of the 100 foot RS wire and came up
with the six, five conductor 17.67' radial sets. The free end of three
of the No. 12 AWG wires were stuffed into a (somewhat heavy duty) 1/4"
closed lug and soldered. I did the same with the other three. I used a
250 watt iron here so they came out well soldered and potted. I
installed good quality internal self sealing shrink tubing over both
the lug joint and the five wire (long splice). Since I was primarily
interested in 40 meters, I soldered the far ends of the two outside
wires together. Then I carefully (used a disposable razor knife) and
cut out a two inch long segment from one of these outside flat conductor
wires. This provided me with a 35-1/2 ft folded radial for 40 meters
(times six). The next inside wire was right on (17.67') for the 20
meter band. Then I used the next 17.67'

length plus 7' (opposite the one I left full length for 20 meters) of
the middle wire

(again joining and soldering the far ends of these two wires. and
measuring back up the middle wire and carefully removing a 2' segment at
the aforementioned 7' mark.

This is where it got interesting. I had 10-1/2' of uncut wire running
back to the one foot junction at the No.12AWG extension plus 1' back to
the lug. What to do? YES, Don't mess with it. Don't try to fix it, it's
not broken. Leave it alone and it will provide you with an eleven and a
half foot, resonant 1/4 wave radial for 15. meters.

The only additional thing I'm doing different is in the use of my
adaptation of a decoupling loop as was presented on p.32 et.al... in the
Autumn 1993 issue of Home Brew magazine. The article was presented by
the late Wes Farnsworth KE0NH. The difference is that I developed a
mechanically and durably more sophisticated honey-comb wound decoupling
coil loop and mounting apparatus.

Unlike so many thinkers of today who will run an idea through a computer
and say you, based on the results, I can't do that and achieve any
degree of success. Granted, computers have been programmed by wetware
(humans) to know a lot. Only one small deviation here. I'm not so smart
that I don't know what I don't know. IMHO, If and only if I pay
attention to the mechanical and electrical constructional details, the

SLV, the Iso-ring-loop and the resonant radials consistantly work. Tnx
for the BW Aloha, Peter KH6CTQ

Date: Fri, 28 Nov 1997 20:48:26 -0600
From: "George T. Baker" <w5yr@swbell.net>
To: kt3a@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [31505] Re: HB: Marlin P Jones?
Message-ID: <347F827A.79B4@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

kt3a@juno.com wrote:

>
> I just got a catalog from an outfit called Marlin P. Jones in Lake Park,
> FL.
> It looks like a neat place for the homebrew guy. Can anyone recommend
> them as a good place to deal with?
>
> Cameron C.R. Bailey <><
> Amateur Radio, KT3A
> kt3a@juno.com
> Mount Wolf, Pennsylvania

Been good with me . . .excellent service.

--
73, George
W5YR
AutoPOWER Systems
Fairview, TX

Date: Sat, 29 Nov 1997 03:09:55 -0500
From: "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
To: qrp-l@Lehigh.EDU
Cc: w7ls@blarg.net
Subject: [31506] re: Predicted signal strengths
Message-ID: <3.0.16.19971129021355.0a0fbb8a@som-uky.campus.mci.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>From: W7LS <w7ls@blarg.net>

> I'm looking for a program that will give predicted signal
>strengths at the receiving end, based on transmitter power, antenna gain
>in a particular direction (or similar input variables that would
>translate to what I just said), receiving-end antenna gain in a
>particular direction (previous qualifications, again), solar flux, and
>Solar A values. Is there such a thing?

Hi Jim. I think VOACAP might provide this info for you. I have
played with it a lil, but not really explored it's capabilities,
particularly with qrp signal levels. It is a very powerful piece
of coverage analysis software. I use the DOS version...
there is a Win version as well. VOACAP is available for
download at -

http://elbert.its.bldrdoc.gov/pc_hf/dos_voacap.html

...Rich

Date: Sat, 29 Nov 1997 03:09:58 -0500
From: "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
To: qrp-l@Lehigh.EDU
Subject: [31507] QRP-L ssb SCORES (2)
Message-ID: <3.0.16.19971129023056.26d7bbc6@som-uky.campus.mci.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

QRP-L SWEEPSTAKES SSB SCORES

call	score	qso	mlt
NQ2RP	32,154	233	69
NQ7X	26,980	190	71
WZ2T	26,840	220	61
W9DZ	19,140	165	58
VE5QRP	15,048	132	57
N2TO	14,100	141	50
WA1QVM	11,954	139	43
KI0G	4,704	84	28
AA2VK	588	21	14
N9RLA	80	8	5
N4EUK	70	7	5
K5OI	18	3	3

KC5NGS

Total number of scores reported - 12.

If you're a qrp-l member and operated qrp (class Q) in the ARRL SSB Sweepstakes, send me a note with your claimed score, number of qso's and multipliers, and I'll add you to the list.

In the Subject: line, put QRPLSS, followed by your call, so my mail filter will sort it out for me.

I meant to send this out sooner, but somehow I forgot to que it up... sri. Will send the final posting next week.

...Rich

Date: Fri, 28 Nov 1997 22:13:38 -0500
From: Randy Hargenrader <randyh@harksystems.com>
To: qrp-l@Lehigh.EDU
Subject: [31508] Re:Diodes in Concrete
Message-ID: <347F8862.3268@harksystems.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

This is a reply from a ham friend of mine in the "spook" business...

...a common countersurveillance device (bug locating gadget) is called an "NLJ" or Non Linear Junction Detector.

It consists of two fairly potent oscillators (1 watt each, typically) and a receiver, basically.

Both oscillators are on separate frequencies, usually around either 900 megacycles (outside U.S.) or higher into microwave (domestically).

Both oscillators are into a small antenna on the end of a pole, looking a bit like a professional metal detector. One sweeps all walls and surfaces with the antenna, in the sensitive area. Very impressive looking.

If any nonlinear junctions are found (semiconductors), they will act as mixers and reflect the sum and difference of the frequency of the two oscillators in the NLJ. These freqs are detected by the NLJ's receiver and filters, and indicate an alarm.

The advantage is that virtually anything electronic will be found, even if nonfunctional with dead batteries, burned out, etc. You can find crap years old and abandoned, deep inside walls or hidden. Tape recorders, transmitters, etc.

The disadvantage is that many, many things in ordinary construction and in the real world are nonlinear, like rusty nails, any two pieces of metal touching, plumbing coupling, dissimilar metals, poorly connected joints where two metal surfaces meet, corroded AC power wiring, loosening AC power connections (very very common in buildings more than a few years old).

Or ordinary glass diodes, literally shoveled into the concrete in the Russian-labo constructed U.S. Embassy! The KGB were no fools. All those diodes cause so many false alarms on the NLJ (primary sweep tool) that it is impossible to distinguish real bugs.

You can't tear a wall down and apart for every NLJ hit in a situation like this. You'd take the building down to molecules.

The diodes were only to false alarm the sweep equipment.

It is possible to construct surveillance transmitters out of FETs which of course have no nonlinear junction, so the NLJs are not infallible. But, in the proper hands, they are extremely effective. And extremely expensive.

They *always* will generate dozens of false alarms even in the most innocent situation, and it takes an experienced electronic and surveillance professional to discriminate between the two. Even professionals will use a portable X ray machine to zorch walls and other equipment to confirm the threat before tearing them down on an NLJ hit.

File cabinets are bad for false alarms because the metal surfaces are wrapped and crimped, making a poor connection usually only good enough to be nonlinear where the paint is scraped and oxidized metal touching. The higher the operating frequency of the NLJ the more directional it is, and consequently much more difficult to use and expensive to purchase. A cheaper unit will see a file cabinet 6 feet away.

Nails touching metal studs are another common false.

As the NLJ oscillators usually are quite powerful, the mixer reflections are not all that directional and difficult to physically locate. You have to use experience and common sense.

I hope you you folks found this as interesting as I did, otherwise sorry for the BW.

--

73, Randy WJ4P

Knightlites QRP-L #296

Date: Fri, 28 Nov 1997 22:34:56 -0500 (EST)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: towertalk@contesting.com, antennas@qth.net, QRP-L List <qrp-l@Lehigh.EDU>, gqrp-l@blacksheep.org
Subject: [31509] notes on wide-banding feed for lower HF dipoles
Message-ID: <Pine.SOL.3.94.971128222726.4580A-100000@utkux4.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Notes distributed to towertalk supplementing Dave Leeson's notes on using multiples of 1/2 wl 50-ohm coax followed by a 75-ohm matching section to provide wider-band performance on lower HF dipoles and Vees are now at the site. I have provided some notes on what is happening for those unfamiliar with Smith charts. Also, in answer to requests, I have added some graphs--I am 1/2 hour short--local time--of calling them pictures at 11. Hope the notes and graphs clarify what to expect from the technique. The notes are listed in the Transmission Line. . . section on the index page.

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\	/\	*	/	/	/	(Off)	(423)	974-7215
1434 High Mesa Drive	/	\	\	\	----	/\---	(Hm)	(423)	938-6335
Knoxville, Tennessee	/\	\	\	\	/	/	(FAX)	(423)	974-3509
37938-4443 USA	/	\	\	\					cebik@utk.edu
URL: http://funnelweb.utcc.utk.edu/~cebik/radio.html									

Date: Fri, 28 Nov 1997 20:32:39 -0700
From: "Ron Smith" <resmith@primenet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [31510] Re: HB: Marlin P Jones?
Message-ID: <01bcfc77\$72d37620\$3e22a5ce@primenet.com.primenet.com>
MIME-Version: 1.0
Content-Type: multipart/signed;
 protocol="application/x-pkcs7-signature";
 micalg=SHA-1;
 boundary="-----_NextPart_000_0053_01BCFC3C.C60FE8E0"

This is a multi-part message in MIME format.

-----_NextPart_000_0053_01BCFC3C.C60FE8E0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Does Marlin P. Jones have a Web site?

Ron

-----Original Message-----
From: George T. Baker <w5yr@swbell.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Friday, November 28, 1997 7:50 PM
Subject: Re: HB: Marlin P Jones?

>kt3a@juno.com wrote:
>>
>> I just got a catalog from an outfit called Marlin P. Jones in Lake Park,
>> FL.
>> It looks like a neat place for the homebrew guy. Can anyone recommend
>> them as a good place to deal with?
>>
>> Cameron C.R. Bailey <><
>> Amateur Radio, KT3A
>> kt3a@juno.com
>> Mount Wolf, Pennsylvania
>
>Been good with me . . .excellent service.
>
>--
>73, George

-----=_NextPart_000_0053_01BCFC3C.C60FE8E0--

Ken
Thanks for the thoughts.
Well I DO have an \$18,050 antenna system in the back yard. It's a 80-10
meter vertical I picked up for \$50 and ground mounted, using as my radial
system the wires connected to the rebar in our \$18,000 swimming pool.
What's that?
Yes, it works quite well, expecially in the direction of the swimming pool.
And if a frog falls in the pool, I can either go get the net to fish him out,
or reach over and grab the mike and call CQ and watch him jump out all by
himself!
Bill, K5BDZ

Jim,

For starters, there's:

The Milliwatt, Vol 1, #4, August 1970, pp 2-3, "Weak Signal Reception at Threshold Levels," Yardley Beers, W0JF.

The Milliwatt, Vol 1, #4, August 1970, pp 3-6, "Path Loss Figures and Nomograph for 14, 21, 28 Mc," C. F. Rockey, W9SCH.

Hard for me to believe that I read this stuff in 1970, when I was ending up two years in Puerto Rico with the USN. Somehow I've hung onto that issue of the Milliwatt (and a few, scattered others) over the years and still consider those two articles to be the impetus (aside from the rodent eating my linear) for me giving consideration to QRP as a "lifestyle" choice.

Even with the chart, the article on path loss is a gem you otter read and enjoy.

73
Nils
WB8IJN &c

Date: Fri, 28 Nov 1997 23:22:57 -0500
From: "Daniel L. Evans" <dlevans@hsonline.net>
To: qrp-l@Lehigh.EDU
Subject: [31513] Re: Verticals w/o radials work!
Message-ID: <3.0.1.16.19971128232257.299f8908@mail.hsonline.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I suppose that would help keep the gophers away as well. Maybe even badgers.....

At 11:15 PM 11/28/97 -0500, you wrote:

>Ken
>Thanks for the thoughts.
>Well I DO have an \$18,050 antenna system in the back yard. It's a 80-10
>meter vertical I picked up for \$50 and ground mounted, using as my radial
>system the wires connected to the rebar in our \$18,000 swimming pool.
>What's that?
>Yes, it works quite well, expecially in the direction of the swimming pool.
>And if a frog falls in the pool, I can either go get the net to fish him out,
>or reach over and grab the mike and call CQ and watch him jump out all by
>himself!
>Bill, K5BDZ
>

>
>
Dan L. Evans [N9RLA].....EM78
CQ_DE_dlevans@hsonline.net

Remove the cq_de_ to email me, I hate SPAM!

Date: Fri, 28 Nov 1997 23:35:54 EST
From: kb0rol@juno.com (Bradley L Mugleston)
To: qrp-1@Lehigh.EDU
Subject: [31514] RS Headphones
Message-ID: <19971128.212819.7711.1.kb0rol@juno.com>

----- Begin forwarded message -----
From: Mail Delivery Subsystem <postoffice@staff.juno.com>
To: <kb0rol@juno.com>
Subject: Returned mail: Host unknown (Name server: webaccess.net: host not found)
Date: Thu, 27 Nov 1997 20:08:31 -0500 (EST)
Message-ID: <199711280108.RAAAAA07826@r2.boston.juno.com>

This is a MIME-encapsulated message

--RAAAAA07826.880679311/r2.boston.juno.com

The original message was received at Thu, 27 Nov 1997 13:31:19 -0500 (EST)
from x6.boston.juno.com [205.231.101.23]

----- The following addresses had permanent fatal errors -----
<notu@webaccess.net>

----- Transcript of session follows -----
550 <notu@webaccess.net>... Host unknown (Name server: webaccess.net: host not found)

--RAAAAA07826.880679311/r2.boston.juno.com
Content-Type: message/delivery-status

Reporting-MTA: dns; r2.boston.juno.com
Arrival-Date: Thu, 27 Nov 1997 13:31:19 -0500 (EST)

Final-Recipient: RFC822; notu@webaccess.net

Action: failed
Status: 5.1.2
Remote-MTA: DNS; webaccess.net
Last-Attempt-Date: Thu, 27 Nov 1997 20:08:31 -0500 (EST)

--RAAAA07826.880679311/r2.boston.juno.com
Content-Type: message/rfc822

Steve,

I tried to go direct but the email address I had bounced.

I wouldn't say I was raving but I have two or three of the NOVA 44 headphones. When they go on sale they are priced right for my budget and they sound and feel good to me.

de KB0ROL, Brad
Aurora, CO

Date: Fri, 28 Nov 1997 23:35:55 EST
From: kb0rol@juno.com (Bradley L Mugleston)
To: mgemm@mtechnologies.com
Cc: qrp-1@Lehigh.EDU, cqclist@lists.sni.net
Subject: [31515] Re: Mystery Explained
Message-ID: <19971128.212819.7711.3.kb0rol@juno.com>

It was a great snow/ice storm. I lost my inverted V.

de KB0ROL, Brad

On Fri, 28 Nov 1997 10:47:36 -0600 "Marshall Emm"
<mgemm@mtechnologies.com> writes:
>Last night I was getting nowhere on 40M, switched to 80 and had a
>great chat with K0EVZ in Rochester, MN, who told me it was 40 degrees
>and cloudy there and I told him it was sleeting and 32F here.
>
>Tried to go back to 40M but had an unacceptably high SWR, so I gave
>it up and came upstairs to discover that it was now snowing, and the
>obvious reason for the high SWR on 40M was that the 40M counterpoise
>on the GAP Titan was coated with enough ice and snow to bend it down
>severely and even bury part of the loop under snow on top of the
>trellis!
>

>Photo, if you're interested, at <http://xanadu.chisp.net/users/n1fn/>
>(bottom of the page).
>
>
>
>73
>Marshall Emm
>N1FN/VK5FN
>n1fn@mtechnologies.com
>Milestone Technologies
>Software, kits, tools...
><http://www.mtechnologies.com/mthome>
>(303)752-3382
>--
>

Date: Fri, 28 Nov 1997 23:18:45 -0600
From: "Marty Watt" <mdwatt@usit.net>
To: qrp-1@Lehigh.EDU
Subject: [31516] Kenwood TS-50s and QRP
Message-ID: <199711290518.AAA15139@transfer.usit.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Ladies and Gentlemen,

I have recently acquired a Kenwood TS-50s, and have looked through the archives for mods and operating tips, particularly QRP. I also have the AT-50 auto tuner, and since I'm in an apartment with compromise antennas, I want to continue to use the tuner.

The archives I've seen (pretty much only BARC) indicates the medium and low power settings on the TS-50 are adjustable, and recommends perhaps adjusting the low setting to QRP levels. It cautions however that this may cause the tuner to be inoperative, as the tuner requires 10 watts to autotune the antenna.

My suggestion, for those like me that want to use QRP but still need the automatic tuner in operation, is to set the MIDDLE setting to QRP level (your choice, it will apparently drop to zero), and leave the LOW setting to 10 watts (the default). My experience is that the rig will allow this setting. Regardless of the power setting, the autotune function uses the LOW power setting for tuning. So, when running the middle (QRP) setting, the power will actually increase

when tuning the autotuner.

Hope this helps some ... I'm really enjoying the TS-50s. I am traveling, don't have a CW key, but hope to get in on some foxhunting before too long ...

72 es 73 de KM7W
Marty

Franklin, Tennessee e-mail: mdwatt@usit.net
<http://www.public.usit.net/mdwatt/>
packet: km7w@kf9ug.#nin.in.usa.noam
QRP ARCI - QRP-L - NorCal - ARRL - ARRL VEC

Date: Fri, 28 Nov 1997 21:26:10 -0800
From: "Ronny G. Merkel" <rgmerkel@deltanet.com>
To: n2wf@erols.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [31517] Re: NorCal / K8FF Paddles
Message-ID: <347FA771.DA602F3D@deltanet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

William F. Nicolson Jr wrote:

> ...Here is a JPEG picture of my modified NorCal / K8FF Paddle Kit...
>

The picture came through fine, I'm using Netscape's Communicator.

--

See Ya,
Ron Merkel
KF6NTM
National Association of Rocketry # 68952
(rgmerkel@deltanet.com)

Someone said:

"Keep an open mind - but not so open your brain falls out"

Date: Sat, 29 Nov 1997 00:17:22 -0600
From: Kevin Muenzler <wb5rue@stic.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [31518] RE: Vertical vs. Dipole
Message-ID: <01BCFC5C.2A653D80@SA5399-2-40.stic.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

On Pparker@greatbasin.net, (Parker)
j@parker.reno.nv.us[SMTP:Pparker@greatbasin.net] wrote:
> At 10:59 AM 11/27/97 -0600, Larry Cruise wrote:
>
> >Well am I the only guy in the world using a "Folded unipole" or are there
> others out there quietly using this antenna.
>
> Vertical monopole/folded unipole antennas have been used for years by AM
> broadcast stations. I worked for one in Florida (where the ground
> conductivity was only slightly better than plate glass) that opted for a
> monopole because of ground conductivity considerations. There was a radial
> system in place but the monopole still provided performance improvements
> (read that more potential listeners) than the traditional 1/4-wave vertical.
>
> Jack, W7PW
> QRP-L #1310
>
>
>

I have found, on the lower bands anyway, that a horizontal dipole has
a much better receive performance than a 1/4 wave (or whatever else)
vertical. This is primarily because the horizontal antenna has a much
better noise immunity than the vertical variety. I have a buried loop
antenna that I use for 160 through 40 that is 4" below ground. It has an
extremely good noise immunity on receive but isn't much for transmitting.
I use verticals for transmitting because of the low angle of radiation.

Kevin, WB5RUE
wb5rue@stic.net

Date: Fri, 28 Nov 1997 23:48:00 -0600

From: Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
To: mgipe@reliablemeters.com
Cc: qrp-1@Lehigh.EDU
Subject: [31519] Been there--done that
Message-ID: <M2305306.011.ebpie.1.971129070549Z.CC-MAIL*/OU=LMPCC4/OU=ILBB/
PRMD=MOT/ADMD=MOT/C=US/@MHS>

Mike:

Got a real chuckle out of your experience--

"At one point I tried a cloth buffer
with rubbing compound in my drill press -- and spent the next hour cleaning
the gritty stuff off the walls -- looked like the set for the Texas Chain
Saw Massacre."

Had a similar experience up in Alaska. A buddy and I were batching in Anchorage
for two months while attending a school. Our last night we packed up our stuff
and cleaned up the motel room we had been staying in.

For a dessert for dinner, we decided to make chocolate pudding, but discovered
all the utensils had been packed away. Hmmm---improvise!

Got out a plastic pitcher with a pouring spout lid, put the mix in it, closed
the lid and began shaking. About the tenth shake the cap over the pouring spout
flew open and chocolate pudding all over the kitchen! Spent the rest of the
evening washing down the walls.

You are not alone!

72, Bob N6WG (01' Kenwood wasn't around then)

Date: Fri, 28 Nov 1997 23:36:00 -0600
From: Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
To: qrp-1@Lehigh.EDU
Subject: [31520] Re: V vs H ants (Long!)
Message-ID: <M2305305.010.ebpid.1.971129070548Z.CC-MAIL*/OU=LMPCC4/OU=ILBB/
PRMD=MOT/ADMD=MOT/C=US/@MHS>

Hi, Mike and Tim:

Since no one asked, I'll toss in my opinion here :-)

I've been using two 40m full wave diamond loops, vertically polarized, for the
past four years. Used phased delta loops before that.

When you have a small lot, there are two problems in getting a dipole up high. One is the dimensions of the lot. 66 feet is quite a stretch unless your lot runs just right, or you are willing to live with the compromises of a loaded dipole. Secondly, to put up masts that can support a dipole at 50 ft or better, you are talking either expensive self-supporting towers (so you don't need guys anchored in the neighbor's tomato bed), or a lot big enough to give you anchor points for guyed masts.

Confronted with these unpleasant truths, I opted for an antenna supported at the center on a 50 ft mast. The guys fall within my own small lot. Initially I used an inverted V G5RV, and it worked fairly well. Naturally, as soon as it did, I wanted something "better".

I added some wire to close the bottom of the vee and created my first delta loop. Tried feed at various locations, finally settling on a quarter wave down from the apex. Now that it was working well, what could I do to "improve" it? Well, if one is good, will two be better?

To find out, I put up a 40 ft mast on the garage roof with a second delta on it. At this point I had the option of tuning the rear loop as a reflector and operating the array as a quad blowing toward Florida and Cuba, or of phasing the two loops and obtaining some steering. I opted for phasing and steering. It has paid off, as I can rotate the null of the cardioid shape and place it on a noise source when things get a bit out of hand. I use W1AW as a beacon to align the phasing for best results toward the east. The phasing unit came out of the ARRL Antenna Compendium, I think volume 2.

There is gain, typically one half S unit (I won't quibble about how many db that is--I expect to measure mine someday in an "idle" moment.) when compared to a single loop. Interestingly, I get slightly different results on each loop when used alone, so I have some variables to play with.

In hopes of obtaining a lower takeoff angle (this was long before I obtained EZNEC) I converted both loops to diamonds, each fed at the side. The hope was to obtain results similar to a pair of vertical dipoles with phasing. I put up short (30 ft) self supporting masts anchored to my fences to anchor the side lines used to pull the side points out away from the central mast. This seems to have been an improvement, but it is very subjective, as I can't compare the previous deltas with the diamonds on an A-B basis.

To address the horizontal part of the discussion, I put up a horizontal loop on the roof also. It has three nearly equal sides, and runs from roof peak to roof peak (house is L shaped) under the roof top diamond loop. The antenna books say this is a no-no because of coupling between the loops. Well, I believe in using what's available, and it does work very nicely. I call it my Idaho antenna, because all my ID contacts have been on it. It does show a definite difference in performance from the vertically polarized loops--some signals are stronger on

it and some noises are weaker.

A point made earlier by someone that polarization rotation occurs during the course of a contact is true, and I keep busy switching between vertical and horizontal antennas during a contact. It sure helps on receive, and I assume it helps on transmit as I reply on the last antenna the QSO station was loudest on. Polarization shift doesn't seem too bad within the time frame of a single transmission.

SUMMARY: I like having both vertical and horizontal antennas because it gives me options. I don't have to settle for a "one size (polarity) fits all" solution.

Sorry for the bandwidth, but I love tinkering with and talking about antennas.

72, Bob N6WG

Date: Sat, 29 Nov 1997 08:00:46 -0800
From: "Harvey D. D. Hetland" <n6mm@earthlink.net>
To: QRP-L@Lehigh.EDU
Subject: [31521] Re: HB: Marlin P Jones?
Message-ID: <34803C2E.383C@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

"Does Marlin P. Jones have a Web site?"

Their current catalog indicates their site address is:

<http://www.mpja.com>

It works for me. Their e-mail address is mpja@mpja.com

Based on a quick look at the web site you can request a catalog on line and some portions of the site require Adobe Acrobat.

73, Harvey, N6MM.

Date: Sat, 29 Nov 1997 00:26:21 -0800
From: Bill Todd <bill@techline.com>
To: nwq-l@Lehigh.EDU
Cc: qrp-l@Lehigh.EDU
Subject: [31522] FS: Macintosh Modems
Message-ID: <1.5.4.32.19971129082621.00708f5c@mail.techline.com>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi folks -

I just upgraded the wife's Mac computer, so we have the following two modems for sale:

1. Teleport G old II for Macintosh Performa (14.4K) \$20.00
2. Geoport Telecom Adapter (uses computers' CPU and operating system to create a "virtual" modem \$35.00
(Including operating manual)

Prices do not include shipping, but they should not cost more than a few dollars if shipped via USPS

CUL, Bill-N7MFB

PS: If you respond AFTER Sunday morning, mail to: toddw@elwha.evergreen.edu

Date: Sat, 29 Nov 1997 16:25:04 +0800
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
To: qrp-l@pandora.lugs.org.sg
Subject: [31523] Coax data for RG-6?
Message-ID: <347fd160.pandora@pandora.lugs.org.sg>

Hi,

Does anyone have the specs for the RG-6 cable? I am looking for loss and shielding specs up to 1GHz, especially in contrast to say RG-8 and RG-213.
Thanks.

73 de 9V1ZV Daniel

--

```
+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg |
| 9V1ZV      |                               |
| QRP-L #667 | 9V1ZV@amsat.org             |
+-----+
```

Date: Sat, 29 Nov 1997 11:11:46 +0000
From: "Juan Antonio Lopez, EA8QJ, EA-QRP # 196" <jalopezd@arrakis.es>
To: qrp-ea@rcua.alcala.es
Cc: dx-ea@rcua.alcala.es, qrp-1@Lehigh.EDU
Subject: [31524] LA4AHA en 18 MHz
Message-ID: <3.0.32.19971129110857.007da4d0@pop.arrakis.es>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Saludos para todos:

Acabo de trabajar la estacion LA4AHA. Su QTH esta en Fauske
cerca de la ciudad de BODOE, muy cerca del circulo polar artico.

La frecuencia fue: 18.091.7 MHz
Modo CW
Potencia 5 W
Antena Vertical R-7000

Ahora se encuentra llamando. Sabe que estoy poniendo este mensaje.

Hello QRP-Lers,

I just worked the STN LA4AHA. Op. Per, QTH FAUSKE, nr. BODOE City,
at the Polar Circle.

Now he is on 18.091.7 Mhz.

I used the Index QRP PLUS, 5W to R-7000 Vertical ant.

Best whishes, and GL.

73/72

Juan Antonio, EA8QJ, EA-QRP # 196
EA-QRP Club - Relaciones y desarrollo
mailto:jalopezd@arrakis.es
EA-QRP Club Web Site: <http://www.eaqrp-c.arrakis.es>

Date: Sat, 29 Nov 1997 10:30:09 GMT

From: David Ackrill <g0dja@zetnet.co.uk>
To: qrp-1@Lehigh.EDU
Subject: [31525] Verticals & Earth Mats
Message-ID: <1997112910300983290@zetnet.co.uk>

For a number of years now, Pat Hawker (G3VA), who I believe was an engineer in the Radio Broadcast industry for many years, has been extolling the virtues of using a small number of elevated radial groundplanes instead of the traditional received wisdom of a large number of buried radial wires.

For those who have not come heard of G3VA, he has written a regular column in Radio Communication (the magazine of the RSGB) for many years now called Technical Topics.

One of the stories he relates is that a Dr. George Brown of RCA used an elevated groundplane for an American police radio system operating between 30 and 45MHz, but he only used two radial wires. It was only when customers refused to believe that such a system would be omni-directional that he added two more wires. There was no technical reason for doing this, it was a case of "the customer is always right", so if they wanted 4 wires, they got 4 wires!

Then there was a book by M M Weiner (and others), of the Mitre Corporation, called 'Monopole Elements on Circular Elements on Circular Ground Planes' (Published by Artech House 1987 if you want to try to find it) which has a section on a groundplane of zero extent, that is no radials at all! This is a professionally written book, based upon academic papers and even Pat says that some of the papers written on the subject were beyond his own understanding.

Another reference used was a paper by A. Christman and R. Radcliffe of Ohio University, to the 'IEE Transactions on Broadcasting' (March 1988, pp75-77) called "AM Broadcast antennas with elevated radial ground systems". This was a report of computer modelling which suggested that a monopole with four elevated horizontal radials could be expected to produce more low-angle radiation than a conventional system using 120 buried radials. Al Christman is KB8I and he expanded on his professional paper in QST (August 1988, pp35-42) where he refers to the work carried out by Arch Doty, K8CFU, and states that elevated radials "provides superior performance, because it allows the collection of electromagnetic energy in the form of 'displacement currents', rather than forcing 'conduction currents' to flow through lossy earth.

This system has the disadvantage that the vertical element needs to be off the ground. KB8I suggests a radiator elevated to between 10

to 20 feet AGL with four elevated radials, but that at 3.5MHz, 15 feet AGL would be satisfactory for average soil, with the height being able to be reduced as the frequency of operation is increased. Higher elevation would be needed where soil has poor electrical characteristics, or at lower frequencies.

Whic all tends to suggest that the great amounts of buried wires around the world migh be replaced by 4 wires off the ground.....

Cheers de Dave (G0DJA)

Date: Sat, 29 Nov 1997 06:51:52 EST
From: k5zty@juno.com
To: K5BDZ@aol.com
Cc: qrp-l@Lehigh.EDU
Subject: [31526] Re: Verticals w/o radials work!
Message-ID: <19971129.115658.5447.0.k5zty@juno.com>

Bill,
You're not the only bottle on the fence, and we're not shooting at you. Nobody is saying that rigs and antennas have to be perfect to work . In Richard Fisher's column, Members' News, in QRP Quarterly for January, 1995, he reports Steve Nealon...." loaded his four legged cane on 30 meters to operate a little QRP. Contacts included a 579 from Haledon,NJ and a 569 from Minneapolis, both two way QRP.". This doesn't make walking canes legitimate antennas, and the fact that verticals work somewhat without radials doesn't make the radial system for verticals unnecessary. In specific cases a vertical might work without a radial system, but the vertical radiator needs a return path for the signal and generally the earth is a very poor conductor, hence the need for radials.

Because all of the manufacturers today advertise ' no radial ' verticals, there are many hams today that think that there has been a new revelation in antenna theory and radials are no longer necessary. When a bad idea gets enough play, it begins to take on an air of legitimacy. So guys go out and buy ' No Radial Verticals' and end up agreeing with the old saw," Verticals radiate equally bad in all directions". The right way to install a ground mounted vertical, whether it is permanent or portable, is with a good radial system.

Another misconception that's getting a lot of play is the ' tuned' radials for portable ground mounted verticals.

Too bad for the walking cane manufacturers that Steve's experiment wasn't reported here on the QRP-L. There probably would have been a run on four legged walking canes for antennas.

Bill, K5ZTY
Houston, TX
k5zty@juno.com

Date: Sat, 29 Nov 1997 08:03:33 -0500
From: Michael <MichaelN@cycat.com>
To: qrp-l mailing list <qrp-l@Lehigh.EDU>
Subject: [31527] Gophers and antennas
Message-ID: <348012A5.1354@cycat.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

In all of the discussion of gophers and how to get rid of them, or at least keep them from eating your antenna system, I have not seen any mention of wirlygigs.

The wirlygig is a simple device often looking like a miniature windmill, or some other silly thing like a bird that has wings that spin in the wind. These can be rather decorative and often cause just enough vibration into the ground to irritate the gophers, moles etc. that live underground. This doesn't hurt them except to encourage them to move somewhere else.

You could probably even put one on top of the vertical and call it a wind indicator. I would probably make the antenna vibrate just enough to discourage nibbling by rodents.

FWIW I haven't used a wirlygig for years, but I remember them to work as well as anything else as long as you get at least some wind each day. :-)

michael N6CHV

Date: Sat, 29 Nov 1997 06:13:30 -0700
From: Steve Galchutt <n0tu@webaccess.net>

To: "\"Low Power Amateur Radio Discussion\"" <qrp-l@Lehigh.EDU>
Subject: [31528] Tks for INFO on RS Headphones
Message-ID: <348014F5.24F@webaccess.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thanks to all who replied to my query on which RS headphones you preferred...I received too many responses to email individual thank you's. RESULTS: It seems most favored the Nova 44s with the 43s running close second and a few mentions of the RS 45s. Note: someone said the 44s were on sale again!

Comment: Very few places on the Internet can you ask a simple question that probably has been asked several times before without getting ridiculed or flamed...Only here (QRP-L) can you get intelligent, civil, and informative answers...or maybe just sometimes - humorous, bogus, ridiculous, far-fetched, mindless, wild haired, fox tailed, ghost signaled, and other related or unrelated myths...but for the most part it's pure unadulterated intelligent FUN on this list!

--

CUL Steve/n0tu . .
Solar powered QRP/CW
Monument, CO.....email:N0TU@webaccess.net

Date: Sat, 29 Nov 97 8:29:35 EST
From: Joel Malman <malman@BBN.COM>
To: qrp-l@Lehigh.EDU
Subject: [31529] CQ WW - CW, 15 meters
Message-ID: <199711291329.IAA69938@nss4.cc.Lehigh.EDU>

Folks,

15 meters is wall-to-wall Europe for the CQ WW 'test'.... I just started (daylight for me): 10 calls got me 10 countries. Your mileage will vary.

/joel wa1qvm wa1qvm@bbn.com (QTH: Concord, Massachusetts)

Date: Sat, 29 Nov 1997 07:40:43 -0700 (MST)
From: ki7mn@dancris.com

To: qrp-l@Lehigh.EDU
Subject: [31530] Re: (Fwd) [CW] Is it possible to be left or right "eared" for CW?
Message-ID: <199711291440.HAA21338@dancris.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Date: Sat, 29 Nov 1997 07:41:22
>To: kb0rol@juno.com (Bradley L Mugleston)
>From: ki7mn@dancris.com
>Subject: Re: (Fwd) [CW] Is it possible to be left or right "eared" for CW?
>
>At 11:35 PM 11/28/97 EST, you wrote:
>>We could go one step further and expand on some research my cousin was
>>doing while getting his PHd in neurological surgery.
>>
>>He would take new born kittens and sew one of the eye lids shut then let
>>them learn all about the world with one eye. After they had things
>>figured out he would close the other eye and open the first to see what
>>transferred between the two sides.
>>
>>Anyone out there just learning the code?
>>
>
>So, we should sew one ear shut?
>
72,73
Bob KI7MN Norcal 1228, QRP-L 271, ARCI 8918, CQC 274, AKQRP 30
<http://www.dancris.com/~ki7mn>

Date: Sat, 29 Nov 1997 09:49:05 -0500 (EST)
From: bruce muscolino <w6toy@pop.erols.com>
To: k5zty@juno.com
Cc: QRP-L@Lehigh.EDU
Subject: [31531] Re: Verticals w/o radials work!
Message-ID: <2.2.16.19971129104056.2cd73324@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>
>Richard Fisher's column, Members' News, in QRP Quarterly for January,
>1995, he reports Steve Nealon...." loaded his four legged cane on 30
>meters to operate a little QRP. Contacts included a 579 from Haledon,NJ
>and a 569 from Minneapolis, both two way QRP.". This doesn't make

>walking canes legitimate antennas, and the fact that verticals work
>somewhat without radials doesn't make the radial system for verticals
>unnecessary.

>

I would also suggest readers take a look at the Sterba articles from
WorldRadio. He is always loading up shopping carts and lawn chairs to
prove almost anything will work. His column appears monthly in WR and they
have reprinted two series of his articles into books.

No association with World radio other than being one of their Earlier
Lifetime Subscribers (got my money's worth there!) and an avid reader of
Sterba's work.

73

Date: Fri, 28 Nov 1997 18:41:20 -0600
From: "Mike Pender" <steam@megsinet.net>
To: <kfglynn@prodigy.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [31532] Re: R5 Vertical at my location
Message-ID: <01bcfc5f\$82dac7c0\$834f85d0@ns1.megsinet.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Kevin F. Glynn <kfglynn@prodigy.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Thursday, November 27, 1997 10:29 PM
Subject: R5 Vertical at my location

>Hi gang,

>

>Just wanted to say one thing about my experience with the Cushcraft R5
>vertical.

....snip**.....>>>>

>72 Kevin N2T0
>Brooklyn, NYC
>kfglynn@prodigy.net
>

Hi Kevin. I found that to get 17 to work on the r5, I had to cut some of the tube off

of the stub, as I couldn't shorten it enough. But when I did that, it came in perfectly.

And no, the r5 in no way, shape or form cover all of 20 meters. I use my tuner and

it works perfectly all over 20. For 20, I usually use my g5rv anyway. It almost

always outperforms the r5 on 20. The r5 has it beat from 15 on up though.

It took me a while to kill my tvi/phone rfi problems. I ground all my equipment

to a common ground wire which then goes about ten feet outside to an 8ft.

ground rod, All of my antenna bases are common grounded to a separate ground rod also. I have a coax choke on my hf coax runs, as you mentioned also. I

also

use a B&W low pass filter which is also grounded. My antenna switches, tuners,

and meters are grounded to the equipment grounds also.

After all that, I STILL had to put snap on chokes at certain phones on the phone

cord to kill the phone rfi for my wife. She works on the phone from home.

Clip on chokes usually kill tvi if you put them on the input to the vcr, which is

the most susceptible item there. Trial and error WILL kill rfi if you're patient.

73... Mike

Mike Pender Chicago, Illinois, U.S.A.

steam@megsinet.net or N9IV0@Amsat.org

Fax: 708-795-7003

Amateur Radio Call: N9IV0 W.A.S. DXCC 10X-66444

A.M.A. 529703

I.B.E.W. Local 9 Lineman 17 years.

Date: Sat, 29 Nov 1997 07:14:06 +0000

From: Leon Heller <leon@lfheller.demon.co.uk>

To: tahrens@inetport.com

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [31533] Re: Solar Flare - The novel / emp

Message-ID: <RpxwMBA+C8f0EwR0@lfheller.demon.co.uk>

MIME-Version: 1.0

In message <199711290106.TAA09464@admin.inetport.com>, Tim Ahrens
<tahrens@inetport.com> writes
>Hi Cam - from my ex mil days, I think that your rigs
>will only survive an EMP if the antenna is shorted directly
>to ground. Bye-bye ALL cell phones, two way services,
>etc, etc. Not a pretty sight/thought.

Current military radios, like the new Bowman system for the British Army
that I have worked on, don't need any special precautions to withstand
an EMP, as I recall.

Leon

--

Leon Heller: leon@lfheller.demon.co.uk <http://www.lfheller.demon.co.uk>
Amateur Radio Callsign G1HSM Tel: +44 (0) 118 947 1424
See <http://www.lfheller.demon.co.uk/rcm.htm> for details of a
low-cost reconfigurable computing module using the XC6216 FPGA

Date: Sat, 29 Nov 1997 08:50:41 -0700
From: "Ron Smith" <resmith@primenet.com>
To: <n6mm@earthlink.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [31534] Re: HB: Marlin P Jones?
Message-ID: <01bcfcde\$8bedfba0\$3e22a5ce@primenet.com.primenet.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks for the info Harvey.

72

Ron

Date: Sat, 29 Nov 1997 10:04:06 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: bruce muscolino <w6toy@pop.erols.com>
Cc: qrp-1@Lehigh.EDU
Subject: [31535] Re: Verticals w/o radials work!

Message-ID: <199711291704.KAA16515@bobcat.sni.net>

MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7BIT

Hi Bruce, Gang--

>>articles from WorldRadio. He is always loading up
shopping carts and lawn chairs to prove almost anything
<<

He's right, and I'm a big fan.

The First Law of Antenna Construction says that "Anything will work
as an antenna to some extent, and nothing will work as well as it
should."

Last year after Christmas I got bored and was thinking about how I'd
explained an "SQC" or Significant QRP Contact to my daughter. We're
in Denver; she's in Ithaca NY, and I had recently worked a station
there running half a watt, which I described as being about the same
amount of power as would be required to light one christmas tree
light. Some momentary synaptic short-circuit or brain chemistry
imbalance took me from there to the idea of loading up my Christmas
tree. Well, just the lights, actually-- a sort of helical vertical
with about a hundred little RC stubs. It worked, to some extent, but
not as well as it should have.

As for verticals without radials, it is important to distinguish
between ground plane antennas (like the R series), which need to work
against a ground plane, and vertical dipoles (like the GAP) which
don't, and won't work WITH them any more than a horizontal dipole
would. Depending on what you are doing, the low angle of radiation
from a vertical can often more than make up for any other
shortcomings, and it may well be the most EFFECTIVE antenna you can
install. I "shouted" EFFECTIVE because that is a much more
useful word than "efficient" when it comes to antenna design. My
own philosophy is simply "whatever works," and all the arguments
about "my antenna's better than yours" remind me of, well, something
else.

73

Marshall Emm

N1FN/VK5FN

n1fn@mtechnologies.com

Milestone Technologies

Software, kits, tools...

<http://www.mtechnologies.com/mthome>
(303)752-3382

--

Date: Sat, 29 Nov 1997 11:27:13 -0600
From: n5inz@juno.com (John M Andrews)
To: QRP-L@Lehigh.EDU
Subject: [31536] Ham lessons on tape?
Message-ID: <19971129.112715.3214.0.N5INZ@juno.com>

Howdy:

My young nephew, a truck driver, has expressed an interest in getting his "ticket". He spends much of his time on the road.

Do any of you have suggestions about courses on tape that he could listen to that would enable him to learn the basics?

I've worked up code tapes so that is not a problem, just the theory.

Thanks & 72- John- N5INZ

Date: Sat, 29 Nov 1997 12:57:32 -0500
From: nilsbull@juno.com (Nils R Young)
To: QRP-L@Lehigh.EDU
Subject: [31537] Novel stuff, ne?
Message-ID: <19971129.125733.11238.0.nilsbull@juno.com>

Gang,

I just killed off my QRP-L list address through AOL. From now on, if you wanna spam me or flam me or saute-in-a-pan me, you'll find me here at Juno's mail system.

Slow learners. Now if I could only get AOL to let me sign up for a GeoCities "free" homepage (both machines crap out when I push the "agree to terms &c" button), I'd move my web pages there and be done with the whole deal . . . except for web surfing . . . which I ain't figured out how to get cheap yet. . . unless I use this MSN CD what I got sittin' here . . . Hmmm

Anyway, that's the deal for the moment & thanks for all the chickens

73

Nils

WB8IJN &c

nilsbull@juno.com

Date: Sat, 29 Nov 1997 12:26:00 -0600 (CST)
From: jdenison@morelr.com (JOEL DENISON)
To: qrp-1@Lehigh.EDU, rmorel@morelr.com, bcrow@Carte.Net, k1pig@aol.com, KJBRASSO@aol.com
Subject: [31538] Vertical & radials--- ha
Message-ID: <199711291826.MAA02840@m20.morelr.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello all bodies (m/f)

On this radial thing. I had a friend back in Lydia Louisiana who used a vertical and an eight foot gnd rod and it worked grrrreat!!!! K5MZG is his call.

Now the town of Lydia is + - one or two feet above sea level, depending on the tide. I suspect gnd conductivity was very good.

I also has a quarter wave 66' vertical with a gnd rod and four radials that worked good, I was about twenty feet above sea level, Middle of town of new iberia, la.

What I have found is that my mobile doesn't work well up here in Maine, in the sneaux without four radials mounted on it... :-)

I am trying to put up a vertical dipole for forty at the present time. Yes, dear hearts, I is fishing in the trees again looking for a sky hook for my rope to hold my ants. Anyone know if I need an Ice Fishing licence to do this???

My only bias is for short verticals.... Those things can poke you in the eye or other bodily areas and ruin ur day, with or without radials... :-)(-:

God Bless

joel wa5cvm

God Bless

Joel

WA5CVM

Joel Denison

PO BOX 542

Gentle Lady (RC Sail Plane)(049 engine - start)

80 mtr dipole up 50ft

Strong, Maine 04983
jdenison@morelr.com

QRP ARCI 4066
AK/QRP 109

NEW ENGLAND QRP 476 QRP-L 765

Date: Sat, 29 Nov 1997 14:17:35 EST
From: w4bws@juno.com (Donald E Sanders)
To: n5inz@juno.com
Cc: qrp-l@Lehigh.EDU
Subject: [31539] Re: HB: Another well-worn topic
Message-ID: <19971129.153041.7543.2.W4BWS@juno.com>

Yea, my wife sure was happy when I got rid of all those shoe boxes, those are nice Wal-mart boxes
Donald E. Sanders W4BWS
694 E. Eau Gallie Blvd. Satellite Beach, Fl 32937
407-779-0222 Fax 407-779-0830
E-mail to w4bws@juno.com
My favorite QRP rig glows in the dark

On Tue, 25 Nov 1997 11:22:23 -0600 n5inz@juno.com (John M Andrews) writes:
>I never seem to get organised AND seem to have 20-25 projects going at
>the same time.
>
>Was in Wal-Mart a few days ago and noted some shoe-box sizes boxes
>(plastic) with lids for a buck. Great storage concept at a fair price.
>
>No.1 was the VFO, filter, and box for the R-1 that Bill Kelsey is
>shipping.
>No.2 for the huge amount of unsorted resistors.
>No.3 is the 6 meter project.
>No.4 for the giant computer grade caps that seem to run from one
>junk-box
>to the next.
>No. 5 Wall warts.
>
>Well...you get the idea. I used masking tape as it is easy to pull off
>when
>a project is done and a felt tipped marker to indicate contents.
>Delicate
>items such as B&W/Air Dux coils, variable caps, and other items that
>I wish to survive now have a chance wrapped in a paper towel.
>
>Odd size boxes that don't stack well are a thing of the past.
>

>72, John-N5INZ

Date: Sat, 29 Nov 1997 14:17:35 EST
From: w4bws@juno.com (Donald E Sanders)
To: MNHopkins@aol.com
Cc: qrp-1@Lehigh.EDU
Subject: [31540] Re: High Gain Drifter? (FS/T)
Message-ID: <19971129.153041.7543.1.W4BWS@juno.com>

Several years ago, Bob Heil produced a book about modifying the Hygain board to 10 meters. If someone has this book and would like to part with it I would like to have it so I can modify several boards for our local 10 meter net folks.

Donald E. Sanders W4BWS
694 E. Eau Gallie Blvd. Satellite Beach, Fl 32937
407-779-0222 Fax 407-779-0830
E-mail to w4bws@juno.com
My favorite QRP rig glows in the dark

On Sun, 23 Nov 1997 19:06:44 -0500 (EST) MNHopkins@aol.com writes:

>
>Could not resist the allusion to Clint Eastwood's ambiguous offering
>that preceeded the excellent Pale Rider, but this is about Hi-Gain CB
>boards and such.
>A friend, I guess, left off one of the famous High-Gain circuit boards
>here In fact, it is the whole rig with the hand mic that chooses the
>stations and such. "Do something with it," he said.
>
>I'll just do that by offering it for trade for QRP and/or Six Meter
>related items, especially receive converters of any type.
>73 de ab5L, michael in dallas, student of Tecraft and International
>(ICM) ham products and mementoes of Six Meters' Golden Age: 1957-58
>Michael Hopkins
>Box 226841
>Dallas, TX 75222 MNHopkins@AOL.com

Date: Sat, 29 Nov 1997 14:17:36 EST
From: w4bws@juno.com (Donald E Sanders)
To: Pparker@greatbasin.net
Cc: qrp-1@Lehigh.EDU
Subject: [31541] Re: Paddle wiring

Message-ID: <19971129.153042.7543.4.W4BWS@juno.com>

I have had my paddle wired for thumb/dits and fingers/dah since I was used to using my vibroplex bug. Huh, maybe I had it backwards? Glad I'm ambidextrous.

Donald E. Sanders W4BWS

694 E. Eau Gallie Blvd. Satellite Beach, Fl 32937

407-779-0222 Fax 407-779-0830

E-mail to w4bws@juno.com

My favorite QRP rig glows in the dark

On Wed, 26 Nov 1997 07:44:59 -0500 "(Parker) j@parker.reno.nv.us"

<Pparker@greatbasin.net> writes:

>Hummmmm...am I a righty who's been using lefty Vibroplex bugs and

>wiring

>his keyer paddles the wrong way all these years?

>

>My paddle is wired finger/dah and thumb/dit (don't know about NorCal

>paddles...I'm just talking generic paddle wiring)...if I had to

>relearn my

>dit/dah coordination, I'd probably be inclined to dust off the old

>Teletype

>Model 15 and move up the band some:>))

>

>72/73

>

>Jack, W7PW

>

>

>

>

>

>

Date: Sat, 29 Nov 1997 14:26:55 EST

From: w4bws@juno.com (Donald E Sanders)

To: jdenison@morelr.com

Cc: qrp-1@Lehigh.EDU

Subject: [31542] Re: Vertical & radials--- ha

Message-ID: <19971129.154003.7543.5.W4BWS@juno.com>

Joel, do the four radials help your traction on the road in the sneaux.?

Donald E. Sanders W4BWS

694 E. Eau Gallie Blvd. Satellite Beach, Fl 32937

407-779-0222 Fax 407-779-0830

E-mail to w4bws@juno.com

My favorite QRP rig glows in the dark

Date: Sat, 29 Nov 1997 14:42:11 -0500 (EST)
From: W5HNS@aol.com
To: QRP-L@Lehigh.EDU
Subject: [31543] Hammers, ON4UN, and radials
Message-ID: <971129144210_1071936368@mrin40.mail.aol.com>

My wife of 32 years has used a hammer from day one. BUT she almost always chokes way up on the handle. She understands the leverage and better control

with a proper grip...but just won't do it.

I,too, highly recommend ON4UN's low band dxing book!!!!

NOW....all this vertical antenna stuff has really been interesting. What has my attention is the details of applying radials. Someone said it's not the length but how many that is important.

If I take ribbon (how about 8 conductor rotor cable?) and separate each conductor and attach them below the base of the vertical, is that like having 8 separate radials? For example, 4 sets of 8 conductor cable attached separately in 32 spots around the vertical. Each conductor separate.....ONLY SO FAR OUT!!!!

My question ishow effective might this be? The tied off end of the radial will be 8 conductors within the outer jacket with only FOUR tie off points. BUT at the base of the vertical it would be 32 separate ones....am I making myself clear???

Currently I am using a 1/4 wave vertical with four 1/4 wave radials. Base of antenna is about 15 feet above ground. Radials do not have a 45 degree slope coming off the base. SWR is about 4 to 1!!!!!!!!!!!! Feeding with 50 ohm coax.

BUT seems to work OK. I want this puppy to be a DX grabber as I am working on 5bdxcc and 40 m is way behind!!!!!!!!!!!! I have alternated between this antenna and

a 135 ft inv vee fed with 450 ohm ribbon to work foxes. inverted vee is a better receiving antenna. In the CQWW last night I was suspicious that the vertical was being heard better on the other end. Yes, I was running 100 watts.

73 Henry W5HNS

Date: Sat, 29 Nov 1997 20:56:30 +0000
From: Erv <kb8tnq@voyager.net>
To: n5inz@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [31544] Re: Ham lessons on tape?
Message-ID: <3480817D.F8F98B61@voyager.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

John:

First, let me congratulate your nephew on his interest in the Hobby. I, too, am a driver and I have suggested tapes from Gordon West to many drivers since I discovered them.

Gordon's style of teaching is easy, well-paced and informative...not to mention fun. I hope he finds what he's looking for in this information. The address for the W5YI Group is: The W5YI Group, Inc., P.O. Box 565101, Dallas, Texas 75356. He can also call them at (800) 669-9594.

If I can be of further assistance, don't hesitate to drop me a note and my best to your nephew, too.

7-3,
Erv KB8TNQ
Public Information Coordinator
Michigan Section-ARRL

--
Please visit our Web Site at:
<http://www.qsl.net/kb8tnq>

"Dare to Dream, It Sets Your
Spirit Free!"

Date: Sat, 29 Nov 1997 14:10:20 -0800
From: "(Parker) j@parker.reno.nv.us" <Pparker@greatbasin.net>
To: qrp-1@Lehigh.EDU
Subject: [31545] Re: Hammers, ON4UN, and radials
Message-ID: <3.0.1.32.19971129141020.0068e588@mail.greatbasin.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 02:42 PM 11/29/97 -0500, you wrote:

>My wife of 32 years has used a hammer from day one. BUT she almost always
>chokes way up on the handle. She understands the leverage and better control
>
>with a proper grip...but just won't do it.
>
>I,too, highly recommend ON4UN's low band dxing book!!!!
>
>
>NOW....all this vertical antenna stuff has really been interesting. What has
>my
>attention is the details of applying radials. Someone said it's not the
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>how many that is important.
>
>If I take ribbon (how about 8 conductor rotor cable?) and separate each
> conductor
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>spots around the vertical. Each conductor separate.....ONLY SO FAR OUT!!!!
>
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>radial will
>be 8 conductors within the outer jacket with only FOUR tie off points. BUT
>at the
>base of the vertical it would be 32 separate ones....am I making myself
>clear???

Henry:

The important fact to remember is that what you're trying to minimize with
the radials is the ohmic loss in the ground system, so that the "mirror

image" of the vertical, or other antenna, is as similar to the real antenna as possible. Most of these ohmic losses occur very close to the base of the vertical, which is why commercial AM stations commonly use a ground screen (as large as feasible) around the base of the vertical radiator. The radials (120 or more of 'em) then start at (and are bonded to) the perimeter of the screen.

The idea of using rotor cable separated out only so far is not valid because the purpose of multiple radials is to minimize the distance between each radial, which the intent of minimizing the ohmic losses of the soil in (or on) which the radials are laid. Recombining the radials again increases the spacing between the radials, and allows the ohmic losses of the soil to increase.

Technical papers I've seen on single vertical antennas and multiple vertical arrays lead me to believe that if one can reduce the losses to a minimum within a tenth of a wavelength or so around the vertical, then the remaining quarter-wave (or more) of radial system increases the efficiency of the system by only a few percent! This would require a solid (with respect to wavelength) surface, which means copper mesh or very closely spaced radials at HF frequencies. To create such a mesh with radials would require that the radials be bonded to each other at periodic radii out from the antenna.

72/73,

Jack, W7PW

Date: Sat, 29 Nov 1997 13:12:43 -0500
From: nilsbull@juno.com (Nils R Young)
To: mgemm@mtechnologies.com
Cc: qrp-1@Lehigh.EDU
Subject: [31546] Re: Verticals w/o radials work!
Message-ID: <19971129.183356.4654.0.nilsbull@juno.com>

Marshall & amigos,

I wonder how Marshall got his wife to let him load up the tree. Around this madhouse, we kill a tree every year and go through the hassle of squaring off the butt, drilling a hole in the base to fit over the stub on the stand and then draggin' the whole damn mess into the house, leaving behind on the carpet every possible loose pine needle & whatever else falls out in the process.

By the time this happens, I've already listened to Perry Como sing "I'm Dreamin' of a White Christmas" about 8×10^{26} times and am ready to go out and shoot a bunch of 6-disk CD player/changers.

If I volunteered to try the lights, once on the tree, as an antenna, I suspect that Cindy'd think twice about lookin' at the web pages that I handed her yesterday. Still, I'd be willing to try -- when she's off shoppin' til she drops with her friends & family -- just to say that I did it. Hmmm

And what was the suspected price of the K2 kit from EleCraft, by the way? Just in case I manage not to incur the wrath of Momma Christmas . . .

73

Nils

WB8IJN &c

. . . too bad I can't find a bunch of CDs with cats singing carols . . . one of which I already have . . . hmmm . . . carols sung by copying & pasting signals from Cuba . . . Blurp chowpit chow pi-Chowwww Chowwwwpit . . . yeah, that's the ticket . . .

Date: Sat, 29 Nov 1997 23:43:45 -0500
From: "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
To: qrp-l@Lehigh.EDU
Cc: adams@sgi.com
Subject: [31547] KA8OKH Fox Log
Message-ID: <3.0.16.19971129234338.35879910@som-uky.campus.mci.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Here's my log for Nov 27, 0100-0300. I put a "?" where I had a lil trouble, and couldn't get a fill.

It was *wild*. The band never really went long! The west coast was just a murmur most of the time. I was sure that it would be impossible to work anybody east of the Mississippi... boy was I wrong. I got several 599 reports - just amazing.

Memorable moment... Paul, WA9PWP qso's with me twice... once from home, then mobile.

Thanks to everyone. Wish I could've heard W6 a lil better, but

it was all in the hands of the propagation gods. See you again
Dec 23... Rich

#	call	utc	rcvd	st	name	nr
01	AF9T	0100	579	MN	JOHN	1022
02	K2VCO	0101	559	CA	VIC	725
03	N5LU	0102	559	OK	BILL	5W?
04	WD3P	0103	559	MD	LARRY	1039
05	WA9PWP	0104	559	WI	PAUL	127
06	K5JHP	0105	559	TX	BILL	825
07	N2GO	0106	579	NY	JIM	381
08	W0CH	0107	559	MO	DAVE	618
09	N9DD	0109	559	IN	TOM	32
10	K8CV	0110	559	MI	WALT	795
11	KQ0I	0111	559	IA	MARK	625
12	NQ7X	0113	559	AZ	FLOYD	343
13	WD4MSM	0114	599	IN	BARRY	642
14	K8NWD	0115	599	MI	TIM	5W
15	WB8NYV	0116	599	MI	BILL	5W
16	K5ZTY	0117	559	TX	BILL	473
17	K5UP	0118	559	OK	GLEN	21
18	W5HNS	0119	559	TX	HENRY	178
19	N6XU	0121	579	CA	STAN	66
20	W5TFB	0121	559	TX	JACK	282
21	W8RU	0122	599	MI	RON	338?
22	N8ET	0123	579	OH	BILL	498
23	WB9HFK	0123	569	IL	MARK	1159
24	KG2IM	0125	559	NY	JOHN	1193
25	N2TNN	0126	559	NJ	DEAN	560
26	KJ3V	0126	559	AL?	LYNN	1227
27	W3MWY	0128	569	MD	GEORGE	5W
28	K9IA	0129	559	WI	CHUCK	1305
29	NI0A	0129	569	MN	JOHN	689
30	WA1QVM	0130	569	MA	JOEL	337
31	K4GT	0131	559	GA	JIM	1023
32	N2DBD	0132	559	NY	DAN	1W
33	N3XRV	0133	599	MD	CHRIS	655
34	K0EVZ	0135	589	MD	DOC	861
35	K5OI	0136	559	NM	TIM	73
36	WA4DAI	0139	579	VA	AL?	1314?=7F
37	KB9IUA	0139	599	IL	KEVIN	384
38	N4PK	0140	559	GA	ED	1307
39	AA5TA	0141	559	TX	LARRY	1245
40	W6SU	0142	559	CA	JOHN	48
41	N2TSQ	0143	559	NC	BOB	5W
42	AA1MY	0145	569	CT	SEAB	574

43	N3YSI	0146	559	PA	PAUL	4W
44	N9WAQ	0147	599	WI	DAVE	1W
45	K5ON	0148	559	NM	GARY	770
46	WA4CMI	0150	579	VA	CRAIG	1W
47	WA9PWP/M	0151	579	WI	PAUL	127
48	N7IR	0152	549	AZ	GARY	1330
49	N4ROA	0154	549	VA	DAN	970
50	N2APB	0155	559	NJ	GEORGE	894
51	NF3I	0157	559	MD	SCOTT	147
52	N5JI	0158	559	TX	RICH	1054
53	AA2PF	0159	559	NY	DAVE	306
54	N6WG	0200	559	CA	BOB	26
55	AB7TK	0201	559	ID	RANDY	102
56	AC5II	0204	449	OK	DON	264
57	WB0ROQ	0206	559	MO	HENRY?	393
58	KU4LC	0208	559	SC	TOMMY	1272
59	AB7TT	0211	559	AZ	JOE	5W?
60	K2SJB	0214	559	NY	DAVE	757
61	W0RW	0215	599	CO	PAUL	2W?
62	WA5YFY	0215	549	OK	DUB	159
63	KC1FB	0217	559	CT	JIM	29
64	AF5Z	0218	459	TX	BOB	984
65	KA3WMJ	0221	589	PA	KEN	355
66	N7VE	0222	559	AZ	DAN	5W?
67	KD3FG	0224	579	MD	JON	1253
68	VE3ELA	0226	579	ON	KEN	1226
69	W5FN	0227	569	TX	TIM	586
70	KA3EAJ	0228	559	MD	DAVE	245
71	K6VNX	0229	449	CA	ARLEN	5W?
72	NF0R	0231	559	MO	DAVE	3W?
73	KQ5U	0232	559	TX	TERRY	5W
74	K1RA	0234	579	MD	ANDY	1W
75	W7QQQ	0236	559	AZ	JACK	1210
76	AB7MY	0238	559	AZ	GARY	571
77	KR0I	0239	559	MO	MAC	1027?
78	WB9LKC	0241	559	WI	RAY	8
79	WB4EXW	0243	449	NC	WATSON	5W
80	WB0CLD	0245	559	MO	BILL	279
81	WV3J	0247	559	VA	PAUL	1224
82	AB5UA	0249	559	OK	CLIFF	478
83	K1MG	0251	449	CA	MIKE	614
84	W8KC	0253	579	MI	PAUL	59
85	K1CL	0254	449	MA	CHUCK	217
86	W0CLR	0256	579	MO	JERRY	1241
87	AC6LA	0258	559	CA	DAN	515
88	N8VAR	0259	559	OH	RON	263

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End of QRP-L Digest 924
